RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/519.083
Source:	PUTIO
Date Processed by STIC:	1/10/05

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 01/10/2005
PATENT APPLICATION: US/10/519,083 TIME: 15:45:00

Input Set : A:\004974.01057 sequence listing.txt.TXT
Output Set: N:\CRF4\01102005\J519083.raw

```
4 <110> APPLICANT: Bayer AG
              Bayerwerk
              51368 Leverkusen
      6
      8 <120> TITLE OF INVENTION: Regulation of Human Receptor Tyrosine Kinase MerTK
    10 <130> FILE REFERENCE: Lio496 WO
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/519,083
C--> 12 <141> CURRENT FILING DATE: 2004-12-23
     12 <150> PRIOR APPLICATION NUMBER: US 60/391,933
     13 <151> PRIOR FILING DATE: 2002-06-28
     15 <150> PRIOR APPLICATION NUMBER: US 60/432,669
     16 <151> PRIOR FILING DATE: 2002-12-12
     18 <160> NUMBER OF SEQ ID NOS: 21
     20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 3248
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Homo sapiens
     27 <220> FEATURE:
     28 <221> NAME/KEY: CDS
     29 <222> LOCATION: (101)...(3151)
     31 <400> SEQUENCE: 1
     32 acagggaget tegetggege gettggeegg egacaggaca ggttegggae gteeatetgt 60
     33 ccatccgtcc ggagagaaat tacagatccg cagccccggg atg ggg ccg gcc ccg
                                                     Met Gly Pro Ala Pro
     35
                                                                           163
     37 ctq ccq ctq ctg ctg ggc ctc ttc ctc ccc gcg ctc tgg cgt aga gct
     38 Leu Pro Leu Leu Gly Leu Phe Leu Pro Ala Leu Trp Arg Arg Ala
                                             15
     41 atc act gag gca agg gaa gaa gcc aag cct tac ccg cta ttc ccg gga
                                                                           211
     42 Ile Thr Glu Ala Arg Glu Glu Ala Lys Pro Tyr Pro Leu Phe Pro Gly
                                         30
     43
                     25
     45 cct ttt cca ggg agc ctg caa act gac cac aca ccg ctg tta tcc ctt
                                                                           259
     46 Pro Phe Pro Gly Ser Leu Gln Thr Asp His Thr Pro Leu Leu Ser Leu
     47
                                     45
                                                                           307
     49 cct cac gcc agt ggg tac cag cct gcc ttg atg ttt tca cca acc cag
     50 Pro His Ala Ser Gly Tyr Gln Pro Ala Leu Met Phe Ser Pro Thr Gln
                                 60
     53 cct qqa aga cca cat aca gga aac gta gcc att ccc cag gtg acc tct
                                                                           355
     54 Pro Gly Arg Pro His Thr Gly Asn Val Ala Ile Pro Gln Val Thr Ser
                             75
     55 70
                                                                           403
     57 gtc gaa tca aag ccc cta ccg cct ctt gcc ttc aaa cac aca gtt gga
     58 Val Glu Ser Lys Pro Leu Pro Pro Leu Ala Phe Lys His Thr Val Gly
```

59

90

Input Set : A:\004974.01057 sequence listing.txt.TXT
Output Set: N:\CRF4\01102005\J519083.raw

		-															453
61	cac	ata	ata	ctt	tct	gaa	cat	aaa	ggt	gtc	aaa	ttt	aat	tgc	tca	atc	451
	His	Ile	Ile		Ser	Glu	His	Lys		Val	Lys	Pne	Asn	Cys	ser	11e	
63				105					110				-~~	115		ast.	499
65	agt	gta	cct	aat	ata	tac	cag	gac	acc	aca	att	Cor	tgg	Ten	Tuc	yar Asn	433
	Ser	Val		Asn	IIe	lyr	GIn		Thr	THE	тте	Ser	Trp 130	пр	пуъ	Asp	
67			120					125		~~~	-++	242		+++	+ a +	CCS	547
69	999	aag	gaa	ttg	CLL	999	gca	Cat	Uic	yca Nla	Tla	Thr	cag Gln	Dhe	Tur	Pro	J47
	GIY		GIU	Leu	ьeu	GIY	140	птъ	пть	Ala	116	145	GIII	riic	-1-	110	
71		135	~~~	~++	242	~ ~~		ato	act	tac	ttc	-	ata	acc	agt.	at.a	595
73	gac	yaı	gaa	yct val	Thr	γca	Tla	Tle	Δla	Ser	Phe	Ser	Ile	Thr	Ser	Val	
	150	Asp	GIU	vai	1111	155	116	116	AIG	DCI	160	501				165	
		aat	tas	G2C	aat		tca	tat	atc	t.at.		atσ	aaa	ata	aac		643
78	Gln	Ara	Ser	Asn	Asn	Glv	Ser	Tvr	Ile	Cvs	Lvs	Met	Lys	Ile	Asn	Asn	
79	GIII	My	ber	nop	170	0-7		-1-		175	-1-				180		
	gaa	gag	atc	ata		gat.	ccc	atc	tac		qaa	qta	caa	qqa	ctt	cct	691
82	Glu	Glu	Ile	Val	Ser	Asp	Pro	Ile	Tyr	Ile	Glu	Val	Gln	Gly	Leu	Pro	
83	0_0			185					190			•		195			
	cac	ttt	act		caq	cct	gag	agc	atg	aat	gtc	acc	aga	aac	aca	gcc	739
86	His	Phe	Thr	Lys	Gln	Pro	Glu	Ser	Met	Asn	Val	Thr	Arg	Asn	Thr	Ala	
87			200	-				205					210				
89	ttc	aac	ctc	acc	tgt	cag	gct	gtg	ggc	ccg	cct	gag	CCC	gtc	aac	att	787
90	Phe	Asn	Leu	Thr	Cys	Gln	Ala	Val	Gly	Pro	Pro	Glu	Pro	Val	Asn	Ile	
91		215					220					225					
93	ttc	tgg	gtt	caa	aac	agt	agc	cgt	gtt	aac	gaa	cag	cct	gaa	aaa -	tcc	835
94	Phe	Trp	Val	Gln	Asn		Ser	Arg	Val	Asn		Gln	Pro	GIu	Lys	ser	
	230					235					240					245	007
97	CCC	tcc	gtg	cta	act	gtt	cca	ggc	ctg	acg	gag	atg	gcg	gtc	Dha	agt Cor	883
	Pro	Ser	Val	Leu		Val	Pro	GIĀ	ьeu		GIU	Met	Ala	vai	260	Ser	
99					250	- ~-			~ at	255	a at	a ta	c 220	י ממי		a cad	931
10	T få	t ga	g gc	c ca	c aa	L ga	i da	a 999	y Cu	y ac	r Va	9 CC	r Lv	9 99'	v Va	g cag l Gln	332
	_	S GI	u Al	а пт: 26:		II AS	y LLY	5 GI.	у <u>Бе</u> 27		LVa	I DC.	ı ıyı	27			
10	<i>3</i> 5 a+.	<i>a</i> 22	a at			a ati		c tc			a ac	t ga	a ote			c cgt	979
10	5 au	c aa	n Il	e far	α 90.	a Tla	= Pr	o Se	r Pr	o Pr	o Th	r Gl	u Vai	l Se	r Il	e Arg	
10		C AS	28		5 A1	u		28					29			_	
		റ മത			a ca	c ag	c at			c tc	c ta	a at	t cc	t gg	t tt	t gat	1027
11	O As	n Se	r Th	r Ala	a Hi	s Se	r Il	e Le	u Il	e Se	r Tr	p Va	l Pro	o Gl	y Ph	e Āsp	
11		29					30				•	30		•	="		
11	- 3 aa	a ta	c tc	c cc	a tt	c aq	aa	t tg	c ag	c at	t ca	g gt	c aa	g ga	a gc	t gat	1075
11	4 Gl	y Ty	r Se	r Pr	o Ph	e Ar	g As:	n Cy	s Se	r Il	e Gl	n Va	l Ly	s Gl	u Al	a Asp	
11	5 31	0				31	5				32	0				325	
11	7 cc	g ct	g ag	t aa	t gg	c tc	a gt	c at	g at	t tt	t aa	c ac	c tc	t gc	c tt	a cca	1123
11	8 Pr	o Le	u Se	r As	n Gl	y Se	r Va	1 Me	t Il	e Ph	e As	n Th	r Se	r Al	a Le	u Pro	
11	9				33	0				33	5				34	0	
12	1 ca	t ct	g ta	c ca	a at	c aa	g ca	g ct	g ca	a gc	c ct	g gc	t aa	t ta	c ag	c att	1171
12	2 Hi	s Le	и Ту	r Gl	n Il	e Ly	s Gl	n Le	u Gl	n Al	a Le	u Al	a As	n Ty	r Se	r Ile	
12	3			34	5				35	0				35	5		
12	5 gg	t gt	t tc	c tg	c at	g aa	t ga	a at	a gg	c tg	g tc	t gc	a gt	g ag	c cc	t tgg	1219

Input Set : A:\004974.01057 sequence listing.txt.TXT
Output Set: N:\CRF4\01102005\J519083.raw

						_			~ 3		0		**- 1	C	Dwo	T	
	Gly	Val			Met	Asn	GIu		GIY	Trp	ser	Ата	Val 370	ser	PLO	TIP	
127			360					365	~~~	a aa	+ ==	at a	-	cct	tta	aat	1267
129	att	cta	gcc	agc	acg	act mb-	gaa	gga	71a	Dro	Cor	y ca Val	gca Ala	Pro	T.e.ii	Asn	120.
	TTE		AIa	ser	THE	TILL	380	GIY	Ala	PIO	361	385	AΙα	110	200	11011	
131		375			a+ a	22+		+a+	aat	cat	aat		gac	atc	aga	t.aa	1315
133	gtc	act	grg	Dho	tou	Aat Nan	Glu	Cor	Car) ac	Acn	Val	Asp	Tle	Ara	Tro	
		Thr	vaı	Pne	ьеи	395	GIU	SET	Ser	тър	400	741	пор			405	*
135	390			~~~	2 a t		a2a	a 2 a	aat	aaa		cta	gtg	aac	tac		1363
137	atg	aag	CCL	Dro	Thr.	Luc	Cln	Gln	Acn	Glv	Glu	Len	Val	Glv	Tvr	Ara	
	Met	ьуѕ	PIO	PIO	410	пуъ	GIII	GIII	ASP	415	014			U -1	420	5	
139	2+2	+ 00	a aa	ata		cad	agt	aca	aaa		tica	aaa	gag	ctc	tta	gag	1411
141	Tla	200	Uic.	7721	Trn	Gln	Ser	Δla	Glv	Tle	Ser	Lvs	Glu	Leu	Leu	Glu	
143	116	PET	nra	425	пр	0111	001		430			-1-		435			
145	~~~	att	aac		aat	aac	age	cga		caa	atc	tct	gtt	caa	qtc	cac	1459
145	Glu	Val	Glv	Cln	Agn	Glv	Ser	Ara	Ala	Ara	Ile	Ser	Val	Gln	Val	His	
147	GIU	Val	440	41		U-1		445					450				
149	aat	act		tac	aca	ata	agg	att	qca	qcc	qtc	acc	aga	ggg	gga	gtt	1507
150	Asn	Ala	Thr	Cvs	Thr	Val	Arq	Ile	Ala	Ala	Val	Thr	Arg	Gly	Gly	Val	
151		455		-2			460					465	_				
153	aaa	ccc	ttc	aqt	qat	cca	qtq	aaa	ata	ttt	atc	cct	gca	cac	ggt	tgg	1555
154	Glv	Pro	Phe	Ser	Asp	Pro	Val	Lys	Ile	Phe	Ile	Pro	Ala	His	Gly	\mathtt{Trp}	
	470				_	475		_			480					485	
157	qta	qat	tat	gcc	ccc	tct	tca	act	ccg	gcg	cct	ggc	aac	gca	gat	cct	1603
158	Val	Asp	Tyr	Āla	Pro	Ser	Ser	Thr	Pro	Ala	Pro	Gly	Asn	Ala	Asp	Pro	
159		_			490					495					500		
161	gtg	ctc	atc	atc	ttt	ggc	tgc	ttt	tgt	gga	ttt	att	ttg	att	999	ttg	1651
162	Val	Leu	Ile	Ile	Phe	Gly	Cys	Phe	Cys	Gly	Phe	Ile	Leu		Gly	Leu	
163				505					510					515			
165	att	tta	tac	atc	tcc	ttg	gcc	atc	aga	aaa	aga	gtc	cag	gag	aca	aag	1699
166	Ile	Leu	Tyr	Ile	Ser	Leu	Ala		Arg	Lys	Arg	Val	Gln	GIu	Thr	гуз	
167			520					525					530				1747
169	ttt	999	aat	gca	ttc	aca	gag	gag	gat	tct	gaa	tta	gtg	grg	aat	Tar	1747
170	Phe		Asn	Ala	Phe	Thr		Glu	Asp	ser	GIU		Val	vaı	ASII	ıyı	
171		535					540					545		200	++-	ast	1795
173	ata	gca	aag	aaa	tcc	ttc	tgt	cgg	cga	gcc	att	gaa	ctt	acc mh~	LLA	Uic	1193
		Ala	Lys	гĀг	Ser			Arg	Arg	Ala	560		Leu	1111	meu	565	
175	550					555		at a	a aa	-a-			caa	cat	att		1843
177	agc	ttg	gga	gte	agt	gag	gaa	Ton	Caa	Acn	Lac	T.e.i	gaa Glu	Asn	Val	Val	
		Leu	GIY	vai	570		Giu	ьeu	GIII	575		пец	GIU	пор	580	741	
179							2++	att	aaa			cta	ggt	gaa		gag	1891
181	att	gac	agg	aat Nan	Ton	Tou	Tla	Len	Glv	Lvs	Tle	Len	Gly	Glu	Glv	Glu	
	тте	Asp	Arg	585		neu.	116	Ten	590		-10	u	~- <i>y</i>	595	1		
183		~~~	+ ~+			naa	aus	aat			cad	gaa	gat		acc	tct	1939
106	Dha	999	CD-	yıa Vəl	Mo+	Glii	Glv	Agn	Len	Lvs	Gln	Glu	Asp	Glv	Thr	Ser	
187		GIA	600		1.100	UI U	O L y	605		-,5			610	4			
107	ata	222			ata	aac	acc			tta	gac	aac			caq	cgg	1987
107	Len	Luc	7-3 3-3	βla	บลา	Lve	Thr	Met	Lvs	Len	Asp	Asn	Ser	Ser	Gln	Arg	
130	πeα	пур	VQI	AIG		-75			-10								

Input Set: A:\004974.01057 sequence listing.txt.TXT Output Set: N:\CRF4\01102005\J519083.raw

101		61 F					620					625					
191	~~~	615	~~~	~~~	+++-	ata		aaa	aca	aca	tac	–	aaa	aac	ttc-	agc-	2035
193	gay	TIA	Clu	Clu	Dho	Leu	Cor	Glu	Δla	Δla	Cve	Met	Lvs	Asn	Phe	Ser	
		116	GIU	GIU	FIIE	635	261	Gru	AIU	niu	640	1100	2,5	1105		645	
195		~~~		~+ a	a++	cga	a++	cta	aat	ata		ata	caa	ata	add		2083
197	Uic	Dro	Aan	ycc val	Tla	Arg	T.011	Len	Glv	Val	Cve	Tle	Glu	Met	Ser	Ser	2005
	HIS	PIO	ASII	vai	650	Arg	пец	пеп	Gry	655	Cys	110	014	1100	660	D Q 1	
199						ccc	a+~	at a	a++		ccc	ttc	ata	222		aaa	2131
201	caa	ggc	atc	CCa	aag	Pro	Mot	yea	TIA	Tou	Dro	Dhe	Mat	Luc	Tur	G1 v	2131
	GIN	GIY	тте		гуѕ	PIO	mec	vai	670	пеп	PIO	FIIC	Mec	675	T Y T	Gry	
203				665			att	+ - +		003	++~	asa	202		cca	aarr	2179
						tta											2117
	Asp	Leu		Thr	Tyr	Leu	neu	685	ser	Arg	neu	GIU	690	GLY	FIO	пуз	
207			680				a+ -		224	++0	a+~	ata		att	acc	cta	2227
209	cat	att	CCL	ctg	cag	aca	Tou	Tou	T	Dho	Mot	yry val	Acn	Tla	MI a	Leu	222,
	HIS		PIO	ьeu	GIII	Thr		ьeu	пур	PHE	Mec	705	Asp	116	AIG	Бец	
211		695					700	-~~	+	+++	a++		a aa	o a t	tta	act	2275
213	gga	atg	gag	Tat.	ctg	agc	aac aac	agg	Aar	Dho	Tou	Uic	۸۳a	yac Nan	T.AII	Ala	2213
	_	мет	GIU	Tyr	Leu	Ser	ASII	Arg	ASII	PILE	720	UIS	Arg	veh	пец	725	
	710			.		715			~~~	25.0		~~~	2012	200	cca		2323
						acc											2323
	Ala	Arg	ASN	Cys		Thr	nis	Leu	ALA	735	пеп	Ala	Arg	per	740	AIG	
219	.	.			730			~~~	~~+		a+~	aat	at a	+ ~+		aca	2371
221	CCC	tgc	Con	Tac	cgc	agg	tau	Cya 7~~	yaı	yac Nan	Mot	Thr	7727	Cyc	Wal	Δla	23/1
	ser	Cys	ser	745	Cys	Arg	ьeu	Arg	750	Asp	Mec	1111	vaı	755	vai	ALG	
223	~~~		~~~		+ a+	aag	224	a++	-	aat	aac	aat	tat		·cac	caa	2419
						Lys											2117
	Asp	Pne	760	Leu	ser	nys	пуъ	765	ıyı	361	Gry	лэр	770	- 7 -	****	0.1.1.	
227	~~~	~~~		aat	224	atg	aat		222	taa	ato	acc		gaa	agt	ctt	2467
229	990	200	Tla	ycι λla	Tare	Met	Dro	Wal	Lace	Trn	Tle	Δla	Tle	Glu	Ser	Leu	
230	Gry	775	116	AIa	цур	Mec	780	Val	цув	ııp	110	785		014	501		
	~~~	–	CC 2	ata	tac	aca		222	agt	gat	ata		gca	ttt	aac	ata	2515
233	Nla	yac Aen	Ara	Val	Tur	Thr	Ser	Lvc	Ser	Asn	Val	Trn	Ala	Phe	Glv	Val	
	790	nap	Arg	Val	- 7 -	795		_,_			800				1	805	
		ato	taa	gaa	ata	gct	acq	caa	gga	atσ		aca	tat	cct	aaa		2563
						Ala											
239	1111	MCC		Ozu	810				<b>0-</b> 1	815			- 2 -		820		
	cad	aac	cat	gag		tat	gac	tat	ctt		cat	aac	cac	agg		aaq	2611
						Tyr											
243	0111	11011		825		-1-		-1-	830			2		835		•	
	cad	CCC	gaa		tac	ctg	gat	gaa		tat	gaa	ata	atq		tct	tqc	2659
246	Gln	Pro	Glu	Asp	Cvs	Leu	Asp	Glu	Leu	Tvr	Glu	Ile	Met	Tyr	Ser	Cys	
247	·		840		٠,٠			845		- 2 -			850	•		•	
	taa	aga		gat	ccc	tta	gac		ccc	acc	ttt	tca	qta	ttq	aqq	ctq	2707
250	Trn	Ara	Thr	Asp	Pro	Leu	Asp	Ara	Pro	Thr	Phe	Ser	Val	Leu	Arq	Leu	
251	1	855					860	3				865					
	cao		gaa	aaa	ctc	tta		agt	tta	cct	qac		cqq	aac	caa	gca	2755
254	Gln	Len	Glu	Lvs	Leu	Leu	Glu	Ser	Leu	Pro	Asp	Val	Arq	Asn	Gln	Āla	
	870			-1-		875				_	880					885	

Input Set : A:\004974.01057 sequence listing.txt.TXT
Output Set: N:\CRF4\01102005\J519083.raw

257	gac	gtt	att	tac	gtc	aat	aca	cag	ttg	ctg	gag	agc	tct	gag	ggc	ctg	2803
258	Asp	Val	Ile	Tyr	Val	Asn	Thr	Gln	Leu		Glu	Ser	Ser	GIu	Gly	Leu	
259					890					895					900		0051
261	gcc	cag	ggc	tcc	acc	ctt	gct	cca	ctg	gac	ttg	aac	atc	gac	cct	gac	2851
262	Ala	Gln	Gly	Ser	Thr	Leu	Ala	Pro		Asp	Leu	Asn	Ile		Pro	Asp	
263				905					910					915			
265	tct	ata	att	gcc	tcc	tgc	act	CCC	cgc	gct	gcc	atc	agt	gtg	gtc	aca	2899
266	Ser	Ile	Ile	Ala	Ser	Cys	Thr		Arg	Ala	Ala	Ile		Val	Val	Thr	
267			920					925					930		٠.		
269	gca	gaa	gtt	cat	gac	agc	aaa	cct	cat	gaa	gga	cgg	tac	atc	ctg	aat	2947
270	Ala	Glu	Val	His	Asp	Ser	Lys	Pro	His	Glu	Gly	Arg	Tyr	Ile	Leu	Asn	
271		935					940					945					
273	ggg	ggc	agt	gag	gaa	tgg	gaa	gat	ctg	act	tct	gcc	CCC	tct	gct	gca	2995
274	Gly	Gly	Ser	Glu	Glu	Trp	Glu	Asp	Leu	Thr		Ala	Pro	Ser	Ala	Ala	
275	950					955					960					965	
277	gtc	aca	gct	gaa	aag	aac	agt	gtt	tta	ccg	999	gag	aga	ctt	gtt	agg	3043
278	Val	Thr	Ala	Glu	Lys	Asn	Ser	Val	Leu	Pro	Gly	Glu	Arg	Leu	Val	Arg	
279					970					975					980		
281	aat	ggg	gtc	tcc	tgg	tcc	cat	tcg	agc	atg	ctg	CCC	ttg	gga	agc	tca	3091
282	Asn	Gly	Val	Ser	Trp	Ser	His	Ser	Ser	Met	Leu	Pro	Leu		Ser	Ser	
283				98					990	-				99			2120
285	ttg	CCC	gat	gaa	ctt	ttg	ttt	gct	gac	gac	tcc	tca	gaa	ggc	tca	gaa	3139
286	Leu	Pro	Asp	Glu	Leu	Leu	Phe			Asp	Ser	Ser	Glu	GLY	Ser	GIu	
287			100	0				100	5				101	0			
																	2101
		ctg		tga	gga	gagg	tgc 🤉	gggg	agaca	at to	ccaa	aaat	c aa	gcca	attc		3191
	gtc Val			tga *	gga	gagg	tgc (	9999	agaca	at t	ccaa	aaat	c aa	gcca	attc		3191
290 291	Val	Leu 101	Met 5	*													
290 291 293	Val ttc	Leu 101! tgct	Met 5 gta 9	* ggag	aatc										attc cctt	acc	3191 3248
290 291 293 295	Val ttc: <21	Leu 101: tgct: 0> S	Met 5 gta ( EQ I	* ggag D NO	aatc : 2											acc	
290 291 293 295 296	Val ttc: <21:	Leu 1019 tgcts 0> S 1> L	Met 5 gta ( EQ I ENGT	* ggag D NO H: 1	aatc : 2 016											acc	
290 291 293 295 296 297	Val ttc: <21: <21:	Leu 101! tgct: 0> S! 1> L! 2> T	Met 5 gta ( EQ II ENGT) YPE:	* ggag D NO H: 1 PRT	aatc : 2 016	ca a	ttgt	acct								acc	
290 291 293 295 296 297 298	Val ttc: <21: <21: <21: <21:	Leu 101! tgct; 0> S! 1> L! 2> T' 3> O!	Met 5 gta ( EQ II ENGT YPE: RGAN	* ggag D NO H: 1 PRT ISM:	aatc : 2 016 Hom	ca a	ttgt	acct								acc	
290 291 293 295 296 297 298 300	Val ttc: <21: <21: <21: <40:	Leu 101! tgct; 0> S! 1> L! 2> T' 3> O! 0> S!	Met  gta  gta  EQ II  ENGTI  YPE:  RGAN  EQUE	* ggag D NO H: 1 PRT ISM: NCE:	aatce : 2 016 Home 2	ca a	ttgt: pien	acct:	g ate	gttt	ttgg	tat	ttgt	ctt	cctt		
290 291 293 295 296 297 298 300 301	Val ttc <21 <21 <21 <40 Met	Leu 101! tgct; 0> S! 1> L! 2> T' 3> O! 0> S!	Met  gta  gta  EQ II  ENGTI  YPE:  RGAN  EQUE	* ggag D NO H: 1 PRT ISM: NCE:	aatc : 2 016 Home 2 Pro	ca a	ttgt: pien	acct:	g ate	gttt: Leu	ttgg	tat	ttgt	ctt	cctt:		
290 291 293 295 296 297 298 300 301 302	Val ttc: <21: <21: <21: <40: Met	Leu 101: tgct: 0> S: 1> L: 2> T: 3> O: 0> S: Gly	Met 5 gta gta EQ II ENGTI YPE: RGAN EQUE	* ggag D NO H: 1 PRT ISM: NCE: Ala	aatc : 2 016 Home 2 Pro	ca a o sa Leu	ttgt pien Pro	acct s Leu	g ato	gttt: Leu 10	ttgg Gly	tat	ttgt Phe	ctt Leu	ectta Pro 15	Ala	
290 291 293 295 296 297 298 300 301 302 303	Val ttc: <21: <21: <21: <40: Met	Leu 101: tgct: 0> S: 1> L: 2> T: 3> O: 0> S: Gly	Met 5 gta gta EQ II ENGTI YPE: RGAN EQUE	* ggag D NO H: 1 PRT ISM: NCE: Ala Arg	aatc : 2 016 Home 2 Pro	ca a o sa Leu	ttgt pien Pro	acct s Leu	g ato Leu Ala	gttt: Leu 10	ttgg Gly	tat	ttgt Phe	ctt Leu Lys	cctt:	Ala	
290 291 293 295 296 297 298 300 301 302 303 304	Val ttc: <21: <21: <21: <40: Met 1 Leu	Leu 101! tgcte 0 > S: 1 > L: 2 > T	Met 5 gta gta EQ II ENGTI YPE: RGAN EQUE Pro Arg	* ggag D NO H: 1 PRT ISM: NCE: Ala Arg	aatc : 2 016 Home 2 Pro 5 Ala	ca a o sa Leu Ile	pien Pro Thr	acct s Leu Glu	g ato	Leu 10 Arg	ttgg Gly Glu	tat Leu Glu	ttgt Phe Ala	Leu Lys 30	Pro 15 Pro	Ala Tyr	
290 291 293 295 296 297 298 300 301 302 303 304 305	Val ttc: <21: <21: <21: <40: Met 1 Leu	Leu 101! tgcte 0 > S: 1 > L: 2 > T	Met  gta gta gta eQ II ENGTI YPE: RGAN EQUE Pro Arg	* ggag D NO H: 1 PRT ISM: NCE: Ala Arg	aatc : 2 016 Home 2 Pro 5 Ala	ca a o sa Leu Ile	pien Pro Thr	s Leu Glu Pro	g ato	Leu 10 Arg	ttgg Gly Glu	tat Leu Glu	Phe Ala Thr	Leu Lys 30	ectta Pro 15	Ala Tyr	
290 291 293 295 296 297 298 300 301 302 303 304 305	Val ttc: <21: <21: <40: Met 1 Leu	Leu 1019 tgctg 0> S: 1> L: 2> T' 3> O: 0> S: Gly Trp Leu	Met 5 gta g EQ II ENGTI YPE: RGAN EQUE Pro Arg Phe 35	# ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro	aatc : 2 016 Hom 2 Pro 5 Ala	ca a o sa Leu Ile Pro	pien Pro Thr	s Leu Glu Pro 40	Leu Ala 25 Gly	Leu 10 Arg Ser	Gly Glu Leu	Leu Glu	Phe Ala Thr 45	Leu Lys 30 Asp	Pro 15 Pro His	Ala Tyr Thr	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307	Val ttc: <21: <21: <20: <40: Met 1 Leu Pro	Leu 101: tgct: 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu Leu	Met 5 gta g EQ II ENGTI YPE: RGAN EQUE Pro Arg Phe 35	# ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro	aatc : 2 016 Hom 2 Pro 5 Ala	ca a o sa Leu Ile Pro	pien Pro Thr Phe His	s Leu Glu Pro 40	Leu Ala 25 Gly	Leu 10 Arg Ser	Gly Glu Leu	Leu Glu Gln	Phe Ala Thr 45	Leu Lys 30 Asp	Pro 15 Pro	Ala Tyr Thr	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308	Val ttc: <21: <21: <21: <40: Met 1 Leu Pro	Leu 101: tgct; 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50	Met 5 gta gta gta EQ II ENGTI YPE: RGAN EQUE Pro Arg Phe 35 Leu	# ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu	ca a o sa Leu Ile Pro	pien Pro Thr Phe His	s Leu Glu Pro 40 Ala	Leu Ala 25 Gly Ser	Leu 10 Arg Ser	Gly Glu Leu Tyr	Leu Glu Gln Gln	Phe Ala Thr 45 Pro	Leu Lys 30 Asp	Pro 15 Pro His	Ala Tyr Thr Met	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308	Val  ttc: <21: <21: <21: <40: Met     1 Leu  Pro Pro Phe	Leu 101: tgct; 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50	Met 5 gta gta gta EQ II ENGTI YPE: RGAN EQUE Pro Arg Phe 35 Leu	# ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu	ca a o sa Leu Ile Pro Pro	pien Pro Thr Phe His	s Leu Glu Pro 40 Ala	Leu Ala 25 Gly Ser	Leu 10 Arg Ser	Gly Glu Leu Tyr	Leu Glu Gln Gln	Phe Ala Thr 45 Pro	Leu Lys 30 Asp	Pro 15 Pro His	Ala Tyr Thr Met	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310	Val ttc: <21: <21: <40: Met 1 Leu Pro Pro Phe 65	Leu 101: tgct: 0 > S: 1 > L: 2 > T 3 > O: 0 > S: Gly Trp Leu 50 Ser	Met 5 gta gta gta gta gta e EQ II YPE: RGAN EQUE Pro Arg Phe 35 Leu Pro	* ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu	ca a constant constan	pien Pro Thr Phe His 55 Gly	s Leu Glu Pro 40 Ala	Leu Ala 25 Gly Ser	Leu 10 Arg Ser Gly	Gly Glu Leu Tyr Thr 75	Leu Glu Gln Gln Gly	Phe Ala Thr 45 Pro	Leu Lys 30 Asp Ala Val	Pro 15 Pro His Leu	Ala Tyr Thr Met Ile 80	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310	Val  ttc: <21: <21: <40: Met  1 Leu  Pro  Phe 65 Pro	Leu 101: tgct: 0 > S: 1 > L: 2 > T 3 > O: 0 > S: Gly Trp Leu 50 Ser	Met 5 gta gta gta gta gta e EQ II YPE: RGAN EQUE Pro Arg Phe 35 Leu Pro	* ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu Gln Ser	ca a constant constan	pien Pro Thr Phe His 55 Gly	s Leu Glu Pro 40 Ala	Leu Ala 25 Gly Ser	Leu 10 Arg Ser Gly His	Gly Glu Leu Tyr Thr 75	Leu Glu Gln Gln Gly	Phe Ala Thr 45 Pro	Leu Lys 30 Asp Ala Val	Pro 15 Pro His Leu Ala	Ala Tyr Thr Met	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 312	Val  ttc: <21: <21: <21: <40: Met     1 Leu  Pro Pro Phe 65 Pro	Leu 101: tgct: 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50 Ser Gln	Met 5 gta gta gta gta EQ II ENGT YPE: RGAN EQUE Pro Arg Phe 35 Leu Pro Val	ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu Gln Ser 85	ca a  o sa  Leu  Ile  Pro  Pro  Pro  Val	pien Pro Thr Phe His 55 Gly	s Leu Glu Pro 40 Ala Arg	Leu Ala 25 Gly Ser Pro	Leu 10 Arg Ser Gly His Pro 90	Gly Glu Leu Tyr Thr 75 Leu	Leu Glu Gln Gln Gly Pro	Phe Ala Thr 45 Pro Asn	Leu Lys 30 Asp Ala Val	Pro 15 Pro His Leu Ala 95	Ala Tyr Thr Met Ile 80 Phe	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 312 313	Val  ttc <21: <21: <21: <40: Met  Leu  Pro  Pro  Phe 65 Pro  Lys	Leu 101: tgct: 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50 Ser Gln	Met 5 gta gta gta gta EQ II ENGTH YPE: RGAN EQUE Pro Arg Phe 35 Leu Pro Val	ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu Gln Ser 85 Gly	ca a  o sa  Leu  Ile  Pro  Pro  Pro  Val	pien Pro Thr Phe His 55 Gly	s Leu Glu Pro 40 Ala Arg	Leu Ala 25 Gly Ser Pro Lys	Leu 10 Arg Ser Gly His Pro 90 Ser	Gly Glu Leu Tyr Thr 75 Leu	Leu Glu Gln Gln Gly Pro	Phe Ala Thr 45 Pro Asn	Leu Lys 30 Asp Ala Val Leu Gly	Pro 15 Pro His Leu Ala 95 Val	Ala Tyr Thr Met Ile 80 Phe	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 310 311 312 313	Val ttc <21 <21: <21: <40 Met 1 Leu Pro Pro Phe 65 Pro Lys	Leu 101: tgct; 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50 Ser Gln His	Met 5 gta	ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr Thr	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu Gln Ser 85 Gly	ca a  ca a  Leu  Ile  Pro  Pro  Pro  Val  His	pien Pro Thr Phe His 55 Gly Glu	s Leu Glu Pro 40 Ala Arg Ser	Leu Ala 25 Gly Ser Pro Lys Leu 105	Leu 10 Arg Ser Gly His Pro 90 Ser	Gly Glu Leu Tyr Thr 75 Leu Glu	Leu Glu Gln Gln 60 Gly Pro	Phe Ala Thr 45 Pro Asn Pro	Leu Lys 30 Asp Ala Val Leu Gly	Pro 15 Pro His Leu Ala 95 Val	Ala Tyr Thr Met Ile 80 Phe Lys	
290 291 293 295 296 297 298 300 301 302 303 304 305 306 307 308 310 311 312 313	Val  ttc <21: <21: <21: <40: Met     1 Leu Pro Pro Phe 65 Pro Lys Phe	Leu 101: tgct; 0> S: 1> L: 2> T 3> O: 0> S: Gly Trp Leu 50 Ser Gln His	Met 5 gta	ggag D NO H: 1 PRT ISM: NCE: Ala Arg 20 Pro Ser Thr Val 100 Ser	aatc : 2 016 Hom 2 Pro 5 Ala Gly Leu Gln Ser 85 Gly	ca a  ca a  Leu  Ile  Pro  Pro  Pro  Val  His	pien Pro Thr Phe His 55 Gly Glu	s Leu Glu Pro 40 Ala Arg Ser	Leu Ala 25 Gly Ser Pro Lys Leu 105 Asn	Leu 10 Arg Ser Gly His Pro 90 Ser	Gly Glu Leu Tyr Thr 75 Leu Glu	Leu Glu Gln Gln 60 Gly Pro	Phe Ala Thr 45 Pro Asn Pro	Leu Lys 30 Asp Ala Val Leu Gly 110 Thr	Pro 15 Pro His Leu Ala 95 Val	Ala Tyr Thr Met Ile 80 Phe	

Input Set : A:\004974.01057 sequence listing.txt.TXT

Output Set: N:\CRF4\01102005\J519083.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 640

Seq#:9; N Pos. 266,390,444,480,557,563,569,581,602

Seq#:15; N Pos. 11,577,971

VERIFICATION SUMMARY

DATE: 01/10/2005

PATENT APPLICATION: US/10/519,083

TIME: 15:45:01

Input Set : A:\004974.01057 sequence listing.txt.TXT

Output Set: N:\CRF4\01102005\J519083.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:600

L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240

M:341 Repeated in SeqNo=9

L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

M:341 Repeated in SeqNo=15